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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/580,872	06/11/2007	Sabine Gaisser	LB63529	5186
23347 7590 03/30/2010 GLAXOSMITHKLINE CORPORATE INTELLECTUAL PROPERTY, MAI B482 EIVE MOORE DR. PO POY 13309			EXAMINER	
			BLAND, LAYLA D	
	FIVE MOORE DR., PO BOX 13398 RESEARCH TRIANGLE PARK, NC 27709-3398		ART UNIT	PAPER NUMBER
			1623	
			NOTIFICATION DATE	DELIVERY MODE
			03/30/2010	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

USCIPRTP@GSK.COM LAURA.M.MCCULLEN@GSK.COM ELAINE.X.MARTENS@GSK.COM

	Application No.	Applicant(s)				
	10/580,872	GAISSER ET AL.				
Office Action Summary	Examiner	Art Unit				
	LAYLA BLAND	1623				
The MAILING DATE of this communication app	ears on the cover sheet with the c	orrespondence address				
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on <u>14 Ja</u>	nuary 2010					
	action is non-final.					
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>21,27,28 and 31-60</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>21, 27, 28, 31-60</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
dee the attached detailed office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ate				
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 5/12/2008. 5) Notice of Informal Patent Application 6) Other:						

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DETAILED ACTION

Applicant's election without traverse of Group III, claims 21 and 27-30, in the reply filed on January 14, 2010 is acknowledged. Applicant's amendment filed January 14, 2010, wherein claims 1-20, 22-26, and 29-30 are canceled and claims 32-60 are newly submitted is acknowledged. Applicant's election of species is acknowledged. Upon further consideration, the election of species requirement is withdrawn. Claims 21, 27, 28, and 31-60 are pending and are examined on the merits herein.

This application is a national stage entry of International Application No. PCT/GB04/05001, filed November 29, 2004, which claims priority to United Kingdom Application No. 0327721.7, filed on November 29, 2004. The certified copy of the priority has been filed with the instant Application.

Claim Objections

Claim 21 is objected to because of the following informalities: the definition of R14 recites –C(0)NR°R^d, which should be –C(0)NR°R^d (oxygen should be represented by the letter O instead of zero). In the last line of the claim, there are closed parentheses but no open parentheses. Appropriate correction is required.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

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Claims 21, 27, 28, and 31-60 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 21 recites the limitation "said compound is a variant of any of the above which differs in the oxidation state of one or more of the ketide units, wherein said ketide unit is selected from the group consisting of -CO-, -CH(OH)-, alkene CH-, and CH₂." It is unclear which variations are encompassed by this limitation. A change in oxidation state could include additional atoms and even fragmentation of the molecule. For example, consider the CH₂ adjacent to nitrogen in the ring in Formula II. A change in oxidation state could change the CH₂ to a CHOH. Further change could result in C=O. Further change could result in C(O)OH and opening of the ring. Even further change could result in the formation of CO₂ and fragmentation of the molecule. The claim could be interpreted to encompass this type of modification, and at every position in the molecule where there is -CO-, -CH(OH)-, alkene CH-, or CH₂. It seems unlikely that Applicant intends to claim ring-opened or fragmentation products or those containing additional unspecified atoms. However, the specification does not provide guidance on this point, but only recites the same language as is given in the claim. Thus, it is unclear which changes in oxidation state, and at which positions, are intended.

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The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 21, 27, 28, 31-36, and 45-52 are rejected under 35 U.S.C. 102(b) as being anticipated by Djokic et al. (J. Chem. Research 1988; (5):152-3).

Djokic teaches the following compound [page 152]:

Compound 18 above anticipates the claims when R^1 is ethyl, R^2 is methyl, R^3 is OH, R^{14} is H, R^4 is methyl, R^5 is methyl, R^{13} is H, R^6 is methyl, R^{15} is H, R^7 is methyl, R^8 is H, and R^9 is methyl.

It is noted that claim 28 does not exclude compounds wherein R¹⁵ is H or require the alternative sugar structure given for R¹⁵, but only further limits the alternative structure recited for R¹⁵. However, even if claim 28 did require that R¹⁵ is the recited sugar, compound 17 shown above anticipates claim 28. The claimed R¹⁵ sugar and the corresponding sugar for compound 17 are shown below:

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Compound 17 is a variant of the claimed compound which differs in the oxidation state of the CH₂ or CH(OH) units indicated by the arrows. The compounds differ in CH₂ versus CH(OH), which is a difference in oxidation state. Compounds differing in the oxidation state of CH(OH) or CH₂ are encompassed by the claims.

Conclusion

No claims are allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to LAYLA BLAND whose telephone number is (571)272-9572. The examiner can normally be reached on Monday - Friday, 7:00 - 3:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Anna Jiang can be reached on (571) 272-0627. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Layla Bland/ Examiner, Art Unit 1623